

Amendments to the Drawings:

The attached sheet includes changes to FIG. 1. This sheet, which includes FIG. 1, replaces the original sheet including FIG. 1.

Attachment: Replacement Sheet

REMARKS/ARGUMENTS

The specification has been amended to correct several typographical errors. Additionally, a corrected FIG. 1 is enclosed herewith. No new matter has been added. Numerous pending claims were rejected under 35 U.S.C. §112, ¶2. In light of the claim amendments, it is respectfully submitted that these §112 rejections are overcome.

Pending claims 1-4, 8, 11, 12, 31-36 and 38-39 stand rejected under 35 U.S.C. §102(e) over U.S. Patent No. 6,842,710 (Gehring). Applicant respectfully traverses the rejection.

As to claim 1, nowhere does Gehring teach a master Gm-C circuit that includes a transconductance and a tunable element. Instead, the Office Action contends that the master Gm-C circuit is element 270, which is disclosed to be a capacitor only. Nor does Gehring anywhere teach that a tuning signal is used to tune a tunable Gm-C circuit. Instead, Gehring teaches avoidance of such Gm-C filters as instead its circuit is used to adjust capacitor switch settings of operational amplifiers, not Gm-C circuits. Gehring, col. 8, lns. 20-26. For at least these reasons, claim 1 and the claims depending therefrom are patentable over Gehring.

Claim 31 is also patentable over Gehring as Gehring nowhere teaches an apparatus that includes a first clock generator to control a waveform generator and a second clock generator to provide a precision clock signal. For at least this reason, claim 31 and the claims depending therefrom are patentable over Gehring.

Pending claims 43-48 stand rejected under 35 U.S.C. §103(a) over Gehring in view of U.S. Patent No. 5,715,529 (Kianush). Applicant respectfully traverses the rejection, at least for the same reasons discussed above regarding claim 1 as neither reference anywhere teaches or suggests presence of either a Gm-C filter nor an apparatus to tune such a filter that includes a transconductance. Accordingly, claims 43-48 are patentable.

New claims 49-54 are patentable, at least because the cited references nowhere teach or suggest a method controlling a slave-controllable transconductance, and certainly not such a method including the claimed method elements of claim 49.

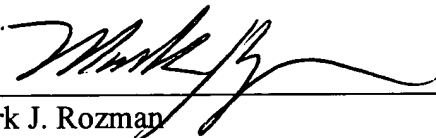
New dependent claims 55-61 are patentable at least for the same reasons as the independent claims from which they depend.

New claims 62-69 are patentable at least because none of the references teach or suggest tuning of a Gm-C filter, as recited by claim 62.

In view of these remarks, the application is now in condition for allowance and the Examiner's prompt action in accordance therewith is respectfully requested. The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 20-1504.

Respectfully submitted,

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